

Title (en)

METHOD FOR THE OPERATION OF A REACTOR FOR THE PRODUCTION OF SYNTHESIS GAS, AND INSTALLATION

Publication

**EP 0108198 A3 19870616 (DE)**

Application

**EP 83107640 A 19830803**

Priority

DE 3237334 A 19821008

Abstract (en)

[origin: US4556421A] A method of operating a cyclic synthesis gas-ore reduction process comprising supplying a carbonaceous material and preheated oxygen to a synthesis gas reactor to produce a hot synthesis gas, partially cooling said hot synthesis gas by directly passing the same through a regenerator and thereby storing the sensible heat of the hot synthesis gas in said generator. Further cooling said synthesis gas by reheating liquid for a vapor generator, and then reheating said further cooled synthesis gas and supplying it to an ore reduction reactor and generating a reduced product and an off gas. Directing the generated off gas to the synthesis gas reactor via said regenerator to heat the off gas to around 100 DEG C. by transferring said stored heat.

IPC 1-7

**C01B 3/36**; **C10J 3/46**

IPC 8 full level

**C01B 3/36** (2006.01); **C10J 3/14** (2006.01); **C10J 3/46** (2006.01); **C10J 3/80** (2006.01)

CPC (source: EP US)

**C01B 3/36** (2013.01 - EP US); **C10J 3/14** (2013.01 - EP US); **C10J 3/26** (2013.01 - EP US); **C10J 3/46** (2013.01 - EP US); **C10J 3/80** (2013.01 - EP US); **C10J 2300/0943** (2013.01 - EP US); **C10J 2300/0959** (2013.01 - EP US); **C10J 2300/1253** (2013.01 - EP US); **C10J 2300/1618** (2013.01 - EP US); **C10J 2300/1823** (2013.01 - EP US); **C10J 2300/1884** (2013.01 - EP US); **C10J 2300/1892** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)

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EP0182992A3; EP0556691A1; EP0367428A1

Designated contracting state (EPC)

BE FR GB IT NL

DOCDB simple family (publication)

**EP 0108198 A2 19840516**; **EP 0108198 A3 19870616**; **EP 0108198 B1 19890607**; BR 8305565 A 19840515; DE 3237334 A1 19840412; US 4556421 A 19851203; ZA 836962 B 19840530

DOCDB simple family (application)

**EP 83107640 A 19830803**; BR 8305565 A 19831007; DE 3237334 A 19821008; US 53644783 A 19830928; ZA 836962 A 19830919